California Regional Water Quality Control Board
Santa Ana Region

April 15, 2005

Item: 7

Subject: **Consideration of Approval of Yucaipa and San Timoteo Management Zones Maximum Benefit Monitoring Programs Submitted in Compliance with the Total Dissolved Solids (TDS) and Nitrogen Management Plan Specified in the Water Quality Control Plan for the Santa Ana River Basin – Resolution No. R8-2005-0065**

DISCUSSION

On January 22, 2004, the Regional Board adopted Resolution No. R8-2004-0001, amending the Water Quality Control Plan for the Santa Ana River Basin (Basin Plan) to incorporate a revised Total Dissolved Solids (TDS) and Nitrogen Management Plan. The revised Total Dissolved Solids and Nitrogen Management Plan addresses total dissolved solids (TDS) and nitrogen in both surface waters and groundwaters throughout the Santa Ana River basin.

A Maximum Benefit Implementation Plan for Salt Management for the Yucaipa and San Timoteo Management Zones (Maximum Benefit Implementation Plan) is included as part of the TDS and Nitrogen Management Plan. The Maximum Benefit Implementation Plan identifies the actions necessary to implement maximum benefit water quality objectives for TDS and nitrate-nitrogen that apply to the Yucaipa and San Timoteo Management Zones. These objectives apply provided that Yucaipa Valley Water District (YVWD) implements specific plans and projects, including surface and groundwater monitoring programs. In the case of the San Timoteo Management Zone, the application of the maximum benefit objectives is also contingent on the implementation of surface and groundwater monitoring and other specified programs by the City of Beaumont and the San Timoteo Watershed Management Authority (STWMA), pursuant to a separate Maximum Benefit Implementation Plan (see Item 8).

The Maximum Benefit Implementation Plan for the Yucaipa and San Timoteo Management Zones requires YVWD to submit proposed ground and surface water monitoring programs for approval by the Regional Board. Approval of monitoring programs proposed by the City of Beaumont and STWMA is addressed in a separate resolution (Resolution No. R8-2005-0066 (Item 8)). Since YVWD and Beaumont/STWMA have water management plans that affect the San Timoteo Management Zone, the Maximum Benefit Implementation Plans and the surface water and groundwater monitoring programs proposed by the two interests were developed in a coordinated manner.

By letter dated February 20, 2004, YVWD submitted proposed surface and groundwater monitoring programs. These proposed monitoring programs are attached to Resolution No. R8-2005-0065. Staff has reviewed the proposed monitoring programs and finds that they satisfy the Maximum Benefit Implementation Plan requirements.

STAFF RECOMMENDATION

Adopt Resolution No. R8-2005-0065, approving the Yucaipa and San Timoteo Management Zones Maximum Benefit Surface and Groundwater Monitoring Programs shown in the attachment to the Resolution.

California Regional Water Quality Control Board
Santa Ana Region

RESOLUTION NO. R8-2005-0065

Resolution Approving the San Timoteo and Yucaipa Management Zones Maximum Benefit Surface Water and Groundwater Monitoring Program Proposals as Required in the Total Dissolved Solids and Nitrogen Management Plan
Specified in the
Water Quality Control Plan for the Santa Ana River Basin

WHEREAS, the California Regional Water Quality Control Board, Santa Ana Region (hereinafter Regional Board), finds that:

1. An updated Water Quality Control Plan for the Santa Ana River Basin (Basin Plan) was adopted by the Regional Board on March 11, 1994, approved by the State Water Resources Control Board (SWRCB) on July 21, 1994, and approved by the Office of Administrative Law (OAL) on January 24, 1995.

2. Amendments to the Basin Plan to incorporate a revised Total Dissolved Solids and Nitrogen Management Plan into the 1995 Basin Plan were approved by the Regional Board on January 22, 2004, by the State Water Resources Control Board on October 1, 2004 and by the Office of Administrative Law on December 23, 2004. The surface water components of the amendments are awaiting approval by the U. S. Environmental Protection Agency (EPA). It is neither appropriate nor necessary to await EPA approval to consider approval, and thereby trigger implementation, of monitoring programs designed to assess water quality conditions in the Region.

3. The revised Total Dissolved Solids and Nitrogen Management Plan addresses total dissolved solids (TDS) and nitrogen in both surface waters and groundwaters throughout the Santa Ana River basin.

4. The revised TDS and Nitrogen Management Plan includes a Maximum Benefit Implementation Plan for Salt Management in the San Timoteo and Yucaipa Management Zones (hereinafter, Maximum Benefit Implementation Plan). The Maximum Benefit Implementation Plan identifies the actions necessary to implement maximum benefit water quality objectives for TDS and nitrate-nitrogen that apply to the San Timoteo and Yucaipa Management Zones. These objectives apply provided that the Yucaipa Valley Water District (hereinafter, YVWD) implements specific plans and projects, including surface and groundwater monitoring programs. In the case of the San Timoteo Management Zone, the application of these objectives is also contingent on the implementation of surface and groundwater monitoring and other specified programs by the City of Beaumont and the San Timoteo Watershed Management Authority. Approval of monitoring programs proposed by the City of Beaumont and the San Timoteo Watershed Management Authority is addressed in a separate resolution (Resolution No. R8-2005-0066).

5. Pursuant to the Maximum Benefit Implementation Plan, Section B.1 and B.2, YVWD was required to submit by January 23, 2005 proposed surface and groundwater monitoring programs for Regional Board approval. The Maximum Benefit Implementation Plan identifies

the components that must be included in these monitoring programs, at a minimum. YVWD submitted the proposed monitoring programs on February 20, 2004.

6. The proposed ground and surface water monitoring programs satisfy relevant requirements of the Maximum Benefit Implementation Plan for Salt Management in the San Timoteo and Yucaipa Management Zones, as specified in the Basin Plan.

7. The approved surface and groundwater monitoring plans must be implemented by YVWD. The Maximum Benefit Implementation Plan requires that these programs be implemented prior to the recharge of recycled water in either the San Timoteo Management Zone or the Yucaipa Management Zone. This requirement will be incorporated in water recycling requirements issued to YVWD.

NOW, THEREFORE, BE IT RESOLVED THAT:

The Regional Board approves the proposed surface and groundwater monitoring programs submitted by the YVWD on February 20, 2004.

I, Gerard J. Thibeault, Executive Officer, do hereby certify that the foregoing is a full, true and correct copy of a resolution adopted by the California Regional Water Quality Control Board, Santa Ana Region, on April 15, 2005.

_____

Gerard J. Thibeault
Executive Officer

Yucaipa Valley Water District

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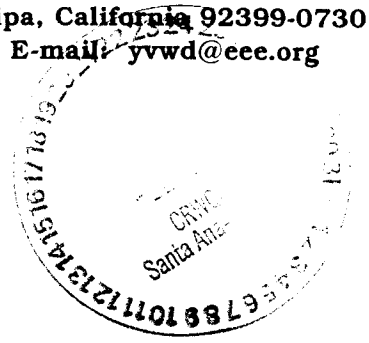


February 20, 2004

Mr. Gerard J. Thibeault
Chief Executive Officer
Santa Ana Regional Water Quality Control Board
3737 Main Street, Suite 500
Riverside, CA 92501

Re: Monitoring Program for the Yucaipa and San Timoteo Management Zone

The Yucaipa Valley Water District has been an active participant in the Nitrogen/TDS Task Force and is participating in the watershed-scale water resources management plan currently being implemented by YVWD and other members of the San Timoteo Watershed Management Authority. YVWD is also participating in implementation of the San Timoteo Watershed Monitoring Plan to characterize the quality and quantity of urban stormwater/dry weather runoff being implemented through a grant from the State Water Resources Control Board.

The District is committed to protecting the groundwater supplies in the Yucaipa Management Zone and the San Timoteo Management Zone and therefore requests the Regional Water Quality Control Board to implement the water quality objectives included in the maximum benefit study for the area served by the Yucaipa Valley Water District. In this context, a draft Monitoring Program for the Yucaipa and San Timoteo Management Zones for YVWD is attached for your review and consideration. YVWD anticipates submitting the first quarterly data submittal to the Regional Board by July 15, 2004 and the first annual data submittal by February 15, 2005. In addition, YVWD will either collect data and compute ambient groundwater quality or participate in a regional effort to compute the ambient quality beginning by July 2004 so that an ambient quality determination can be provided to the RWQCB by July 1, 2005 and every three years thereafter.

Yucaipa Valley Water District appreciates the efforts of the Regional Board and its staff during the development of the Basin Plan Amendment, and the opportunity to demonstrate beneficial use protection based on maximum benefit objectives. We look forward to working with you and your staff on this important endeavor to responsibly manage the region's water resources.

Sincerely,

Joseph B. Zoba
General Manager

Yucaipa Valley Water District

12770 Second Street, Yucaipa, California 92399

Monitoring Program for the Yucaipa Management Zone and San Timoteo Management Zone

February 2004

1. INTRODUCTION

The Yucaipa Valley Water District ("District" or "YVWD") has been an active participant in the Nitrogen/TDS Task Force responsible for providing oversight, supervision and approval of a study to evaluate the impact of Total Inorganic Nitrogen (TIN) and Total Dissolved Solids (TDS) on water resources in the Santa Ana Watershed. The District has completed, and the Santa Ana Regional Water Quality Control Board has approved, a maximum benefit study for the Yucaipa and San Timoteo Management Zones. As part of the maximum benefit study, the District provided the Regional Water Quality Control Board several commitments which were subsequently included in RWQCB Resolution No. R8-2004-0001 adopted on January 22, 2004.

The District is committed to protecting the groundwater supplies in the Yucaipa Management Zone and the San Timoteo Management Zone and therefore requests the Regional Water Quality Control Board to implement the water quality objectives included in the maximum benefit study for the area served by the Yucaipa Valley Water District.

The purpose of this document is to provide the Regional Water Quality Control Board with the methodology implemented by the Yucaipa Valley Water District to monitor the local groundwater and surface water sources. In summary, the following elements are included in the District's monitoring program:

- Water quality database update
- Groundwater level monitoring program
- Groundwater quality monitoring program
- Water production monitoring program
- Surface water discharge and quality monitoring program

2. MONITORING PROGRAM DESCRIPTION

2.1 Water Quality Database Update

The initial step for any water resources monitoring program is to develop a relational database structure to store the collected data. A relational database typically contains a main table, herein referred to as the *stations table*, which stores the information pertaining to the data collection site. Typically, these data collection sites are wells, wastewater discharge points, stream gaging stations, *etc.* As an example for a well, the data stored in a *stations table* would include the well name, well owner, location coordinates, and the well status, among other data. A database also includes *data tables* that store the data collected at the site, such as water level measurements from a well. These *data tables* are related to the *stations table* through a unique ID for each data collection site. It is imperative that the *stations table* be accurate and current as monitoring data is uploaded to the database.

Virtually all the available groundwater level and groundwater quality data that existed prior to 1998 for the entire YVWD area was compiled into a relational database during the Nitrogen/TDS Study that was administered by the Santa Ana Watershed Project Authority (WEI, 2000b). In this study, a great deal of attention was paid to quality control and database design. Subsequently, WEI updated the N/TDS database in the YVWD area for the Final Phase I Report through about 2000 (WEI, 2002). The updated N/TDS database – herein referred to as the *YVWD database* – will store all data collected from the various YVWD monitoring programs (see

Sections 2.2 through 2.7). The resulting database developed by WEI is based on the minimum required data for water quality databases as recommended by the US EPA.

The following tasks must be implemented before data collection begins:

2.1.1 Determine Universe of Wells

In order to construct any portion of the YVWD monitoring program, knowledge of the data collection stations (*e.g.* wells) must be current, and such data must be stored within the *stations table* of the YVWD database. Figure 1 is a map (generated from the YVWD database *stations table*) that displays all wells in the vicinity of the YVWD service area – a total of about 192 wells. These wells are listed in Table 1 and are sorted by owner. Most of these wells also have monitoring data stored in the YVWD database *data tables*, such as groundwater level data, groundwater quality data, and groundwater production data. Yucaipa will determine the universe of wells in its service area and in the San Bernardino County portion of the San Timoteo Management Zone. The City of Beaumont and the San Timoteo Watershed Management Authority will determine the universe of wells in the Riverside County portion of the area except the portion in Riverside County within the Yucaipa Service area.

The YVWD database contains data up through 2001. Various entities, including South Mesa Mutual Water Company (SCMWC), Western Heights Mutual Water Company (WHMWC), City of Redlands, YVWD, and USGS, among others, collect and store water resources data from the YVWD area in local databases. These databases will be used to update both the YVWD database and, subsequently, Figure 1 to display all wells in the YVWD area as of the end of calendar year 2003. In addition, the associated monitoring data must also be uploaded to the YVWD database. Each well in Figure 1 then becomes a candidate for inclusion in one or more elements of the YVWD monitoring program.

2.1.2 Canvass Wells

Most wells in the YVWD database lack sufficient *stations* information to determine if a particular well should be included in a particular monitoring program. For instance, without knowledge of a well's status (i.e. active, inactive, abandoned, or destroyed), that well can not be definitively included in a water quality monitoring program since it is unknown if a working pump is installed at this well. For another example, a well cannot be definitively included in a groundwater-level monitoring program unless it is known that a port exists at the wellhead to insert a water level sounder.

For these reasons, every well in Figure 1 must be canvassed through a site visit with appropriate data collection. At the site visit, each well will be physically "tagged" with a YVWD_ID number that corresponds to its unique ID in the YVWD database. All data collected from the well will be referenced with this ID. The *stations* information collected at each well site will include:

- Well ID (YVWD_ID)
- Local name
- Ownership information
- XY-coordinates
- Ground surface elevation
- Reference point description (*e.g.* top of casing) and distance above ground surface

- Capable of obtaining water level (y/n) and water quality (y/n)?
- Well status (*e.g.* active, inactive, abandoned, destroyed)
- Well use (*e.g.* irrigation, domestic, monitor, etc.)
- Production meter description and units of measurement
- Reference digital photographs

2.1.3 Update Database

The data collected during the canvassing of wells will be used to update the *stations table* in the YVWD database. Figure 1 will then be re-generated and be used to construct the various monitoring programs listed below.

2.2 Groundwater Levels

2.2.1 Historical Groundwater Level Monitoring

Various entities have collected groundwater level data in the past. Municipal and agricultural water supply entities have historically collected groundwater level data in programs that range from irregular, study-oriented measurements to long-term periodic measurements. Groundwater level measurements were made for specific investigations such as various California Department of Water Resources (DWR) studies, the United States Geological Survey (USGS) and other investigations by local interests.

In recent years in the Riverside County part of the YVWD area, the San Gorgonio Pass Water Agency (SGPWA) has implemented a cooperative program with the local water agencies including BCVWD, City of Banning, South Mesa Water Company, YVWD, USGS, and some private well owners. SGPWA has compiled these groundwater level observations in a relational database maintained at SGPWA.

In the San Bernardino County part of the YVWD service area, San Bernardino Valley Municipal Water District (SBVMWD) and Western Municipal Water District (WMWD) compile groundwater level data from the City of Redlands, Western Heights Water Company, YVWD, and some private well owners. These data are compiled into various databases maintained at SBVMWD, WMWD and at YVWD.

The databases developed by the various entities have different structures and levels of quality control.

As noted above in Section 2.1, virtually all the available groundwater level data that existed prior to 2001 for the entire YVWD area has been compiled into a relational database during the N/TDS study (WEI, 2000b) and the YVWD Phase I Report (WEI, 2002).

2.2.2 Proposed Groundwater-Level Monitoring Program

YVWD proposes a two-part program – Part 1 Interim Groundwater Level Program and Part 2 Groundwater-Level Key Well Program. Part 1 has two tasks:

Task 1 Update the YVWD database to include all available groundwater level data in the YVWD area. In this task, YVWD would request all historical data from entities that have collected groundwater level data in the YVWD area and in some surrounding basins. These groundwater level data would then be compiled into the YVWD database.

Task 2 Monitor all wells in the YVWD area for two years. Static groundwater levels at all wells identified during the well canvassing as capable of obtaining water level measurements will be measured monthly during this period. These groundwater level data would be compiled into the YVWD database.

At the end of the two-year period, YVWD will make an assessment of the groundwater level data and management program needs to determine the absolute minimum set of wells that need to be monitored to meet the management needs of the YVWD area and the protocols for measuring groundwater levels. This minimum set of wells may include the construction of new monitoring wells. These new wells would typically be nested sets of two or three wells within one borehole that would measure depth-specific piezometric head. These nested monitoring wells would be sited and constructed at the conclusion of the three-year monitoring period after thorough analysis of the collected data. This minimum set of wells (both existing wells and new monitoring wells) is hereafter referred to as the *Groundwater-Level Key Well Program.*

Many of the key wells should be equipped with pressure transducers to automatically record water levels at a prescribed interval. Transducers are not only cost-efficient in the long-term, but typically collect better-quality data than is collected by manual methods at longer measurement frequencies.

2.3 Groundwater Quality

2.3.1 Historical Groundwater Quality Monitoring

Various entities have collected groundwater quality data in the past. South Mesa Mutual Water Company (SMMWC), Western Heights Mutual Water Company (WHMWC), the City of Redlands, SGPWA, SBVMWD, YVWD, USGS, and the counties have collected groundwater quality to comply with DHS requirements under Title 22 or for programs that range from irregular study-oriented measurements to long-term periodic measurements.

2.3.2 Proposed Groundwater-Quality Monitoring Program

As with the groundwater-level monitoring program, YVWD proposes a two-part program – Part 1 an initial groundwater quality assessment and Part 2 a long-term key well monitoring effort. Part 1 has two tasks:

Task 1 Update the YVWD database to include all available groundwater quality data in the YVWD area. Task 1 will maximize the use of existing and mandated water quality programs. The update will consist of the collection of all water quality data from the City of Redlands, SGPWA, SBVMWD, USGS, SMMWC and WHMWC.

Task 2 Sample and analyze for water quality at all other wells in the YVWD area once over a two-year period. Task 2 will implement a sampling and analysis program at private and publicly-owned wells that are not part of any existing or mandated water quality monitoring program. These wells would be sampled once over a two-year period. The wells to be included in this task will be identified in the well canvassing task described in Section 2.1.2. A sampling and analysis plan will be developed by YVWD that identifies these wells and describes the constituents, sampling protocols, etc. The samples would be analyzed for the full Title 22 list of constituents as if the well were used for municipal supply. WEI reviewed the YVWD database and estimated that there are about 192 wells that will need to be sampled as part of this task. Re-sampling and analysis will be done at wells if QA/QC problems are encountered or verification is desired.

Table 2 lists the constituents and the unit cost for each well. YVWD staff members would collect the samples and arrange for shipping samples to a laboratory for analysis.

The data collected in Tasks 1 and 2 above will be rigorously reviewed and compiled into the existing database and, where appropriate, mapped. Based on the review of this data, a long-term monitoring program will be developed and implemented. The long-term monitoring program will contain a minimum set of key wells that can be periodically monitored to assess water quality conditions in the YVWD area over time. Just as with groundwater level monitoring, this minimum set of wells may include the construction of new monitoring wells. These wells would typically be nested sets of two or three wells within one borehole that would measure depth-specific water quality. These nested monitoring wells would likely be the same wells constructed for groundwater level monitoring, and will be sited and constructed at the conclusion of the two-year monitoring period after thorough analysis of the collected data. This minimum set of wells (both existing wells and new monitoring wells) is hereafter referred to as the *Groundwater-Quality Key Well Program.*

2.4 Surface Water Discharge and Quality Monitoring

2.4.1 Historical Surface Water Monitoring

YVWD's objectives for surface water discharge and associated water quality monitoring are:

- to characterize the quality and magnitude of recharge waters;
- to estimate consumptive use of riparian vegetation;
- to assess the salt balance in the basin; and
- for regulatory compliance purposes for RWQCB and DHS.

Characterizing water quality of local and imported waters used for recharge in the basin is necessary to protect water quality for beneficial uses, design treatment processes to produce water quality suitable for intended uses, and to minimize the cost of recycled water recharge. The District is planning to maximize the use of recycled water and will be minimizing the discharge of recycled water to San Timoteo Creek.

The District has negotiated higher basin plan objectives for TDS and nitrogen. In so doing, the District has made commitments to determine the magnitude and quality of surface water discharge at key locations and to characterize the magnitude and quality of recharge. This data will be used to estimate the salt loads and salt balance in the groundwater basins that underlie the YVWD area. Finally, the proposed Title 22 regulations for the planned recharge of recycled water require the monitoring of recharge by all sources if recycled water is being recharged. Parties recharging recycled water will need to make periodic demonstrations regarding the blending and quality of recharged water.

2.4.2 Historical Surface Water Discharge and Quality Monitoring

There has not been a consistent, long-term discharge or water quality monitoring program in the District's service area for surface water recharge. There are some metered diversions in the mountain areas and some ad hoc water quality measurements. The District conducts surface water sampling programs near the point of discharge of its recycling plants. The District has been making weekly surface water discharge measurements in San Timoteo Creek near its recycled water discharge point on San Timoteo Creek since 2002.

2.4.3 Proposed Surface Water Discharge and Quality Monitoring

The District will need to instrument all recharge facilities so that inflow, recharge and direct outflow can be estimated. These facilities currently do not exist and therefore no facility-specific recommendations are made herein. However, a set of pre-facility recommendations are included herein to develop background data that could be used for future recharge assessments.

The RWQCB has developed a monitoring program that must be implemented if the District is allowed to operate the San Timoteo and Yucaipa management zones at higher TDS and nitrogen objectives. This monitoring program is shown in the Table 3. The monitoring program for stream sites has a bi-weekly sampling rate for discharge and water quality. Most of these sites will be dry most of the time. Exceptions include the stations downstream of YVWD recycled water discharge point that could have flow in them most of the time. The District will monitor for total dissolved solids (TDS), total organic carbon (TOC), general minerals, ammonia, nitrite, nitrate, total inorganic nitrogen (TIN), total nitrogen (TN), and physical properties from streams that are tributary to future recharge facilities. This sampling should be done bi-weekly for two years when discharge is available for sampling.

3. IMPLEMENTATION OF THE MONITORING PROGRAM

The implementation plan for the first ten years is summarized below.

3.1 First Two Years (April 1, 2004 to March 31, 2006)

The following actions will be completed in the first two years of the monitoring program:

- Complete initial survey for the groundwater level program.
- Complete initial survey for groundwater quality program.
- Complete installation of water level sensors in recharge and retention facilities.
- Start and continue surface water discharge and quality monitoring at the YVWD outfall per the salt management plan.
- Start and continue surface water discharge and quality monitoring at recharge and retention facilities.
- Update and maintain YVWD database; prepare reports as requested and as required by regulators – YVWD.

3.2 Years Three to Ten (April 1, 2006 to March 31, 2014)

The following actions will be completed in years four through ten of the monitoring program:

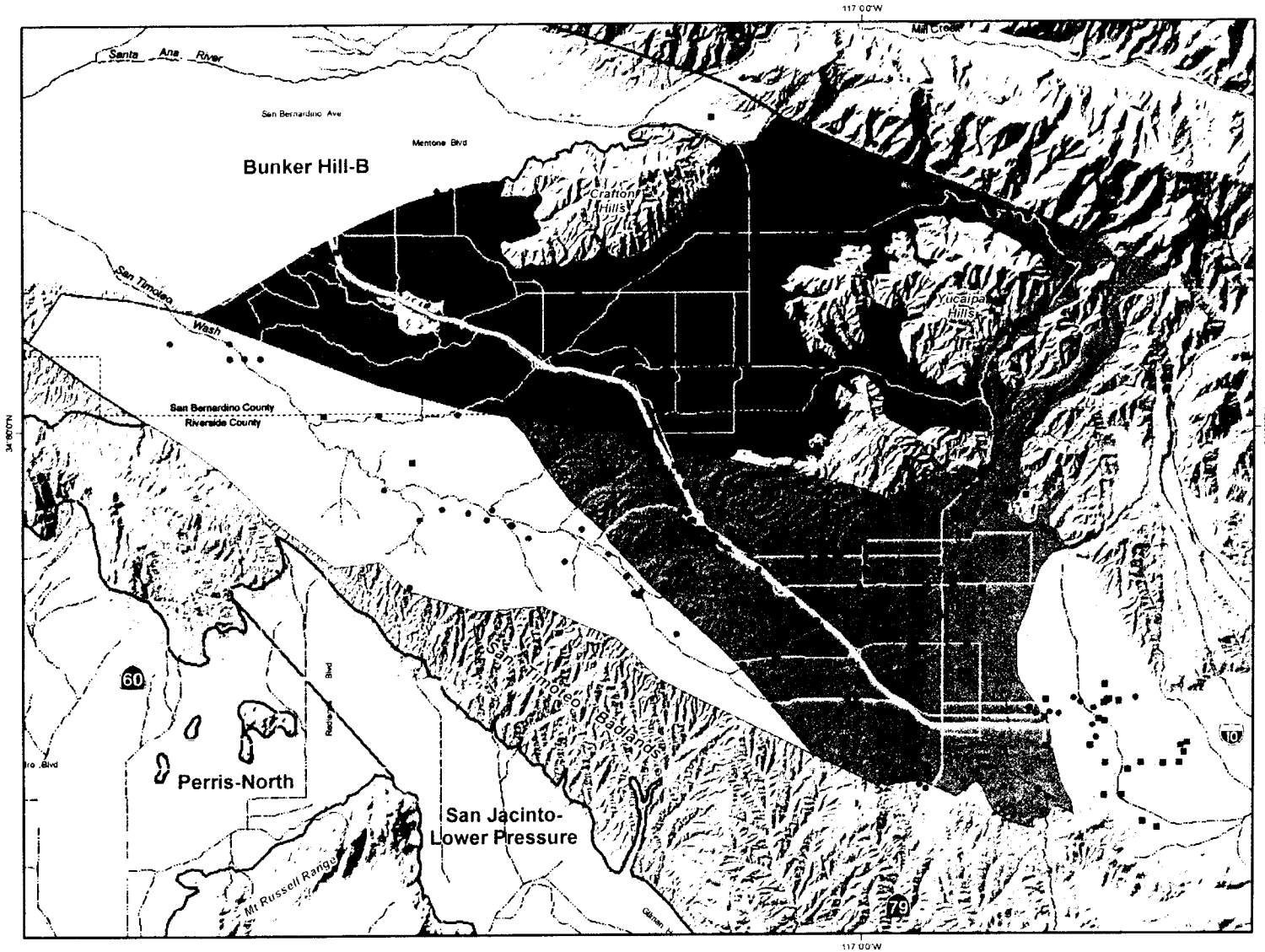
- Start and continue long-term groundwater level monitoring program, cause key wells to be relocated as necessary.
- Start and continue long-term groundwater quality monitoring program, cause key wells to be relocated as necessary.
- Continue production monitoring.

- Continue surface water discharge and quality monitoring at surface water stations described in 2004 Basin Plan per YVWD area salt management plan until YVWD discharge to San Timoteo Creek ceases.
- Continue surface water discharge and quality monitoring at recharge and retention facilities.
- Update and maintain YVWD database; prepare reports as requested and as required by regulators – YVWD

4. REFERENCES

Wildermuth Environmental, Inc. 2002. *San Timoteo Watershed Management Program Final Phase I Report*. Prepared for the San Timoteo Watershed Management Authority (March, 2002).

Wildermuth Environmental, Inc. 2002b. TIN/TDS Phase 2A: MS Access Database for TIN/TDS Study of the Santa Ana Watershed. Technical Memorandum. July 2000. Appendix A.

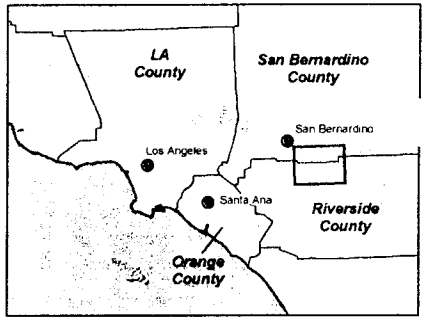


Main Map Features

- Private Well – No Data in Past 5 Years
- Private Well – Some Data in Past 5 Years
- Public Well -- No Data in Past 5 Years
- Public Well -- Some Data in Past 5 Years

Basin Plan Management Zones

- Beaumont
- San Timoteo
- Yucaipa
- Other



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0 1 2 3 4 Miles
0 2 4 6 KM

Yucaipa Valley Water District

Maximum Benefit Monitoring Program
Monitoring Program Description

Location Map of Existing Wells

Figure 1

Table 1
Initial Catalog of Wells in the Yucaipa Management Zone

Member Agency Sphere	Owner	Private or Public?	Existing Well Information						
			STWMA_ID	State Well Number	Local Name	Production Data Exists?	Water Level Data Exists?	Water Quality Data Exists?	Any Data Exists?
Redlands	7TH AVE. WELL	Private	1200531	01S02W31F02	1	N	N	N	N
Redlands	BROWN , WILLIAM E	Private	1201586	02S03W03N	1	N	N	N	N
Redlands	BUOYE WELL	Private	1200521	01S02W29N03	1	N	N	N	N
Redlands	CHINO INVESTORS LTD	Private	1201590	02S03W04N	1	N	N	N	N
Redlands	CHINO INVESTORS LTD	Private	1201605	02S03W10C	2	N	N	N	N
Redlands	CRAFTON WATER COMPANY	Public	1000780	01S02W29N02	5TH AVE 1	Y	N	N	Y
Redlands	EAST LUGONIA MUTUAL WATER CO.	Public	1001240	01S03W35H08	LUETCKE	N	N	N	N
Redlands	GAY, PHILIP L.	Private	1200526	01S02W30H01	1	Y	N	N	Y
Redlands	HAPPE MUTUAL WELL COMPANY	Public	1000778	01S02W29M01	1	N	Y	N	Y
Redlands	HUGHES JAMES T	Private	1201604	02S03W10B	HOME	N	N	N	N
Redlands	KING STREET MUTUAL WELL COMPANY	Private	1000788	01S02W30G01	1	N	N	N	N
Redlands	KOCH, GEORGE J.	Private	1000795	01S02W32G01	1	N	N	N	N
Redlands	NYE, WILLIAM H.	Private	1000779	01S02W29N01	NYE	N	N	N	N
Redlands	RANCHO LADERA	Private	1200520	01S02W29L01	ROLADERA	N	N	N	N
Redlands	REDLANDS FARMING	Private	1201606	02S03W10D	ME SN TIM 1	Y	N	N	Y
Redlands	REDLANDS, CITY OF	Public	1003089	02S03W01E01	1	Y	Y	N	Y
Redlands	REDLANDS, CITY OF	Public	1001231	01S03W35G08	1	Y	Y	Y	Y
Redlands	REDLANDS, CITY OF	Public	1001230	01S03W35G07	11	Y	Y	Y	Y
Redlands	REDLANDS, CITY OF	Public	1001236	01S03W35H02	12	N	Y	N	Y
Redlands	REDLANDS, CITY OF	Public	1001232	01S03W35G09	13	Y	Y	Y	Y
Redlands	REDLANDS, CITY OF	Public	1001238	01S03W35H04	14	N	Y	Y	Y
Redlands	REDLANDS, CITY OF	Public	1001237	01S03W35H03	16	Y	Y	Y	Y
Redlands	REDLANDS, CITY OF	Public	1001233	01S03W35G11	17	N	Y	N	Y
Redlands	REDLANDS, CITY OF	Public	1003092	02S03W03G01	36	N	Y	Y	Y
Redlands	REDLANDS, CITY OF	Public	1000781	01S02W29P01	REES 1	N	N	N	N
Redlands	ROBBINS, H. W.	Private	1200532	01S02W31M01		N	N	N	N
Redlands	SECHREST, RALPH F.	Private	1200530	01S02W31F01	GPHRRCH 1	N	N	N	N
Redlands	SELBY, DR. & MRS. ARTHUR	Private	1000782	01S02W29P02	JRREES 2	N	N	N	N
YVWD	ACKERMANN VALENTIN	Private	1200327	01S01W19G	KAHN	N	N	N	N
YVWD	BARKLEY	Private	1003041	02S02W15B01		N	N	N	N
YVWD	BLOEMERS, GEORGE AND ADA	Private	1201445	02S01W18P01	1	N	N	N	N
YVWD	BURKLE, J. S.	Private	1200362	01S01W26N	NO 2	Y	N	N	Y
YVWD	BURKLE, J. S.	Private	1200364	01S01W26P	NO 3	Y	N	N	Y
YVWD	BURKLE, RON	Private	1200412	01S01W28A	2	N	N	N	N
YVWD	BURKLE, RON	Private	1200349	01S01W21R	WDCD1234	N	N	N	N
YVWD	CARLSON, JACK T.	Private	1200331	01S01W20F	ONLY WELL	Y	N	N	Y
YVWD	CHERRYCROFT HEIGHTS 1-50	Private	1200347	01S01W21M	BARTON 1	Y	N	N	Y
YVWD	CHERRYCROFT HEIGHTS 1-50	Private	1200348	01S01W21P	BARTON 2	Y	N	N	Y
YVWD	CRAFTON MESA WATER COMPANY	Public	1200538	01S02W34Q	1	Y	N	N	Y
YVWD	CRAFTON MESA WATER COMPANY	Public	1200539	01S02W35H	2	Y	N	N	Y
YVWD	GRANT, ROBINSON L.	Private	1201514	02S02W10K	1	N	Y	N	Y
YVWD	H & N INC.	Private	1201507	02S02W08R	NO 1	N	N	N	N

Table 1
Initial Catalog of Wells in the Yucaipa Management Zone

Member Agency Sphere	Owner	Private or Public?	Existing Well Information						
			STWMA_ID	State Well Number	Local Name	Production Data Exists?	Water Level Data Exists?	Water Quality Data Exists?	Any Data Exists?
YVWD	H & N INC.	Private	1201509	02S02W09M	NO. 2	N	N	N	N
YVWD	HUDSON, MERTON	Private	1200437	01S01W35A01	FORD CYN/OAK	Y	N	N	Y
YVWD	HYDRIL COMPANY	Private	1200413	01S01W28E	1	N	N	N	N
YVWD	LOWER YUCAIPA WATER COMPANY	Public	1002998	02S02W08L01	1	N	N	N	N
YVWD	LOWER YUCAIPA WATER COMPANY	Public	1201503	02S02W08N	2	Y	N	N	Y
YVWD	LOWER YUCAIPA WATER COMPANY	Public	1201502	02S02W08L	3	Y	N	N	Y
YVWD	OAK VALLEY PARTNERS	Private	1003043	02S02W16A01	COVINGTON	N	Y	N	Y
YVWD	OWNER UNKNOWN	Private	1207015	02S02W16A01		N	N	N	N
YVWD	OWNER UNKNOWN	Private	1003019	02S02W13L01		N	N	N	N
YVWD	PALMER GENERAL CORP	Private	1201508	02S02W09B	N-1	Y	N	N	Y
YVWD	PERISITS, JACK	Private	1201442	02S01W18C01	2	Y	Y	N	Y
YVWD	PERISITS, JACK	Private	1201443	02S01W18L01	3	N	N	N	N
YVWD	PERISITS, JACK	Private	1201444	02S01W18M	DYSART 1	Y	Y	N	Y
YVWD	REDLANDS, CITY OF	Public	1002983	02S02W03L01	CHICKNH4	Y	Y	Y	Y
YVWD	REDLANDS, CITY OF	Public	1201515	02S02W10P	DAIRY 1	N	N	N	N
YVWD	REDLANDS, CITY OF	Public	1201511	02S02W10B01	HOG CYN	N	Y	N	Y
YVWD	REDLANDS, CITY OF	Public	1201516	02S02W10P01	HOG CYN 2	Y	N	Y	Y
YVWD	REDLANDS, CITY OF	Public	1000799	01S02W34P01	YCPABLVD	Y	Y	Y	Y
YVWD	REDLANDS, CITY OF	Public	1000797	01S02W34N01	YUCIAPA WELL	N	Y	Y	Y
YVWD	RILEY	Private	1201529	02S02W14E01		N	N	N	N
YVWD	SILVERWOOD CONSTANCE	Private	1200365	01S01W26P	1	N	N	N	N
YVWD	SOUTH MESA WATER COMPANY	Public	1003031	02S02W14J02	1	N	Y	N	Y
YVWD	SOUTH MESA WATER COMPANY	Public	1201523	02S02W13E01	2	N	N	N	N
YVWD	SOUTH MESA WATER COMPANY	Public	1003033	02S02W14R01	3	N	Y	N	Y
YVWD	SOUTH MESA WATER COMPANY	Public	1003032	02S02W14M01	5	Y	Y	Y	Y
YVWD	SOUTH MESA WATER COMPANY	Public	1003017	02S02W12M01	6	N	Y	N	Y
YVWD	SOUTH MESA WATER COMPANY	Public	1003038	02S02W15A03	7	Y	Y	Y	Y
YVWD	SOUTH MESA WATER COMPANY	Public	1003036	02S02W15A01	8	N	N	N	N
YVWD	SOUTH MESA WATER COMPANY	Public	1003039	02S02W15A04	9	Y	Y	Y	Y
YVWD	SOUTH MESA WATER COMPANY	Public	1003023	02S02W14C01	11	Y	Y	Y	Y
YVWD	SOUTH MESA WATER COMPANY	Public	1003016	02S02W11M01	12	Y	Y	Y	Y
YVWD	SOUTH MESA WATER COMPANY	Public	1003022	02S02W14B01	14	N	Y	N	Y
YVWD	SOUTH MESA WATER COMPANY	Public	1201530	02S02W14F	15	N	Y	N	Y
YVWD	SOUTH MESA WATER COMPANY	Public	1003029	02S02W14F02	15	N	Y	N	Y
YVWD	SOUTH MESA WATER COMPANY	Public	1007026	02S02W14C	16	Y	Y	N	Y
YVWD	SOUTH MESA WATER COMPANY	Public	1003018	02S02W13E02	1ST NO. 4 WELL	N	N	N	N
YVWD	SOUTH MESA WATER COMPANY	Public	1003034	02S02W14R02	2ND NO. 4 WELL	N	N	Y	Y
YVWD	SOUTH MESA WATER COMPANY	Public	1003035	02S02W14R03	3RD NO. 4 WELL	Y	Y	N	Y
YVWD	SOUTH MESA WATER COMPANY	Public	1003028	02S02W14F01	OLD 15	N	Y	N	Y
YVWD	SOUTH MESA WATER COMPANY	Public	1003037	02S02W15A02	OLD 5	N	N	N	N
YVWD	SOUTH MESA WATER COMPANY	Public	1206847	02S02W15A05		N	N	N	N
YVWD	STATER, L R AND J S BURKE	Private	1201513	02S02W10H01	BAUMANN	N	N	N	N
YVWD	UNITED STATES, GEOLOGICAL SURVEY/S.B.V.M.W.D.	Public	1000687	01S01W20Q01	N.E. Yucaipa	N	Y	N	Y
YVWD	UNITED STATES, GEOLOGICAL SURVEY/S.B.V.M.W.D.	Public	1000696	01S01W30N01	Oak Glen Road	N	Y	N	Y
YVWD	VAN GROUW EDWARD G	Private	1201501	02S02W08K		N	N	N	N
YVWD	WESTERN HEIGHTS WATER COMPANY	Public	1002985	02S02W04C01	1	N	N	N	N
YVWD	WESTERN HEIGHTS WATER COMPANY	Public	1002994	02S02W05K01	1	Y	N	Y	Y
YVWD	WESTERN HEIGHTS WATER COMPANY	Public	1207008		2	N	N	N	N
YVWD	WESTERN HEIGHTS WATER COMPANY	Public	1002986	02S02W04G02	3	Y	Y	Y	Y

Table 1
Initial Catalog of Wells in the Yucaipa Management Zone

Member Agency Sphere	Owner	Private or Public?	Existing Well Information						
			STWMA_ID	State Well Number	Local Name	Production Data Exists?	Water Level Data Exists?	Water Quality Data Exists?	Any Data Exists?
YVWD	WESTERN HEIGHTS WATER COMPANY	Public	1002991	02S02W04L01	4	N	Y	Y	Y
YVWD	WESTERN HEIGHTS WATER COMPANY	Public	1207009		5	N	N	N	N
YVWD	WESTERN HEIGHTS WATER COMPANY	Public	1002980	02S02W03E01	6	N	Y	Y	Y
YVWD	WESTERN HEIGHTS WATER COMPANY	Public	1201496	02S02W05Q01	7	N	N	N	N
YVWD	WESTERN HEIGHTS WATER COMPANY	Public	1002992	02S02W04R01	9	Y	N	Y	Y
YVWD	WESTERN HEIGHTS WATER COMPANY	Public	1201494	02S02W04	11	Y	N	N	Y
YVWD	WESTERN HEIGHTS WATER COMPANY	Public	1207010		12	Y	N	N	Y
YVWD	WESTERN HEIGHTS WATER COMPANY	Public	1002987	02S02W04G03	2A	Y	N	Y	Y
YVWD	WESTERN HEIGHTS WATER COMPANY	Public	1002990	02S02W04J02	5A	Y	N	Y	Y
YVWD	YUCAIPA VALLEY ACRES	Private	1200542	01S02W36C	4	N	N	N	N
YVWD	YUCAIPA VALLEY ACRES	Private	1200543	01S02W36C	5	Y	N	N	Y
YVWD	YUCAIPA VALLEY WATER DISTRICT	Public	1200508	01S02W25A	1	N	N	N	N
YVWD	YUCAIPA VALLEY WATER DISTRICT	Public	1003012	02S02W11D01	1	Y	Y	Y	Y
YVWD	YUCAIPA VALLEY WATER DISTRICT	Public	1003010	02S02W11B01	2	Y	Y	Y	Y
YVWD	YUCAIPA VALLEY WATER DISTRICT	Public	1000773	01S02W25R02	2	Y	Y	N	Y
YVWD	YUCAIPA VALLEY WATER DISTRICT	Public	1201490	02S02W02F	3	N	N	N	N
YVWD	YUCAIPA VALLEY WATER DISTRICT	Public	1200316	02S01W09G02	3	N	Y	N	Y
YVWD	YUCAIPA VALLEY WATER DISTRICT	Public	1002979	02S02W02N01	4	Y	Y	Y	Y
YVWD	YUCAIPA VALLEY WATER DISTRICT	Public	1201441	02S01W17L02	4	N	Y	Y	Y
YVWD	YUCAIPA VALLEY WATER DISTRICT	Public	1000813	01S02W36N01	5	N	Y	N	Y
YVWD	YUCAIPA VALLEY WATER DISTRICT	Public	1002971	02S02W01Q01	5	N	Y	N	Y
YVWD	YUCAIPA VALLEY WATER DISTRICT	Public	1002969	02S02W01F01	6	N	Y	N	Y
YVWD	YUCAIPA VALLEY WATER DISTRICT	Public	1002918	02S01W15F01	6	N	Y	Y	Y
YVWD	YUCAIPA VALLEY WATER DISTRICT	Public	1000814	01S02W36R01	7	N	Y	Y	Y
YVWD	YUCAIPA VALLEY WATER DISTRICT	Public	1201415	02S01W02D	7	Y	N	N	Y
YVWD	YUCAIPA VALLEY WATER DISTRICT	Public	1002973	02S02W02D02	8	N	Y	N	Y
YVWD	YUCAIPA VALLEY WATER DISTRICT	Public	1000772	01S02W25M02	9	N	Y	N	Y
YVWD	YUCAIPA VALLEY WATER DISTRICT	Public	1002978	02S02W02M02	11	Y	Y	Y	Y
YVWD	YUCAIPA VALLEY WATER DISTRICT	Public	1003011	02S02W11B02	12	Y	Y	Y	Y
YVWD	YUCAIPA VALLEY WATER DISTRICT	Public	1000700	01S01W32C01	13	N	Y	Y	Y
YVWD	YUCAIPA VALLEY WATER DISTRICT	Public	1000699	01S01W32A01	14	Y	Y	Y	Y
YVWD	YUCAIPA VALLEY WATER DISTRICT	Public	1002910	02S01W08E01	15	N	Y	N	Y
YVWD	YUCAIPA VALLEY WATER DISTRICT	Public	1200430	01S01W33E02	16	Y	N	Y	Y
YVWD	YUCAIPA VALLEY WATER DISTRICT	Public	1000809	01S02W36F01	18	Y	Y	Y	Y
YVWD	YUCAIPA VALLEY WATER DISTRICT	Public	1000767	01S02W25G01	19	N	Y	N	Y
YVWD	YUCAIPA VALLEY WATER DISTRICT	Public	1000694	01S01W30E01	21	N	N	N	N
YVWD	YUCAIPA VALLEY WATER DISTRICT	Public	1000695	01S01W30G01	22	N	N	N	N
YVWD	YUCAIPA VALLEY WATER DISTRICT	Public	1003009	02S02W11A01	24	Y	Y	Y	Y
YVWD	YUCAIPA VALLEY WATER DISTRICT	Public	1200399	01S01W27M01	25	N	Y	N	Y
YVWD	YUCAIPA VALLEY WATER DISTRICT	Public	1201436	02S01W08E02	26	Y	Y	Y	Y
YVWD	YUCAIPA VALLEY WATER DISTRICT	Public	1002912	02S01W08F01	27	Y	Y	Y	Y
YVWD	YUCAIPA VALLEY WATER DISTRICT	Public	1002915	02S01W09G01	28	Y	Y	Y	Y
YVWD	YUCAIPA VALLEY WATER DISTRICT	Public	1002919	02S01W16C01	29	N	Y	N	Y
YVWD	YUCAIPA VALLEY WATER DISTRICT	Public	1000682	01S01W19G02	31	N	Y	N	Y
YVWD	YUCAIPA VALLEY WATER DISTRICT	Public	1200330	01S01W20D03	32	N	N	N	N
YVWD	YUCAIPA VALLEY WATER DISTRICT	Public	1200326	01S01W19B02	33	N	N	N	N
YVWD	YUCAIPA VALLEY WATER DISTRICT	Public	1003059	02S02W24E02	34	N	Y	Y	Y
YVWD	YUCAIPA VALLEY WATER DISTRICT	Public	1003058	02S02W24E03	35	Y	Y	N	Y
YVWD	YUCAIPA VALLEY WATER DISTRICT	Public	1000686	01S01W20M01	36	N	N	N	N

Table 1
Initial Catalog of Wells in the Yucaipa Management Zone

Member Agency Sphere	Owner	Private or Public?	*Existing Well Information*						
			STWMA_ID	State Well Number	Local Name	Production Data Exists?	Water Level Data Exists?	Water Quality Data Exists?	Any Data Exists?
YVWD	YUCAIPA VALLEY WATER DISTRICT	Public	1000765	01S02W24R01	37	Y	Y	N	Y
YVWD	YUCAIPA VALLEY WATER DISTRICT	Public	1206695	02S01W17L01	38	N	N	N	N
YVWD	YUCAIPA VALLEY WATER DISTRICT	Public	1201440	02S01W17M01	39	N	Y	N	Y
YVWD	YUCAIPA VALLEY WATER DISTRICT	Public	1000683	01S01W19P01	43	N	Y	N	Y
YVWD	YUCAIPA VALLEY WATER DISTRICT	Public	1000804	01S02W36A03	44	Y	Y	Y	Y
YVWD	YUCAIPA VALLEY WATER DISTRICT	Public	1201517	02S02W10P01	45	N	N	N	N
YVWD	YUCAIPA VALLEY WATER DISTRICT	Public	1000810	01S02W36G01	46	N	N	N	N
YVWD	YUCAIPA VALLEY WATER DISTRICT	Public	1003020	02S02W13P01	47	N	Y	N	Y
YVWD	YUCAIPA VALLEY WATER DISTRICT	Public	1003063	02S02W24L02	48	N	Y	Y	Y
YVWD	YUCAIPA VALLEY WATER DISTRICT	Public	1206999	02S02W24L	48	Y	N	N	Y
YVWD	YUCAIPA VALLEY WATER DISTRICT	Public	1002982	02S02W03H01	49	N	Y	N	Y
YVWD	YUCAIPA VALLEY WATER DISTRICT	Public	1000761	01S02W24C01	51	N	Y	Y	Y
YVWD	YUCAIPA VALLEY WATER DISTRICT	Public	1200514	01S02W25R04	53	Y	Y	N	Y
YVWD	YUCAIPA VALLEY WATER DISTRICT	Public	1206698	02S02W09F01	54	Y	N	N	Y
YVWD	YUCAIPA VALLEY WATER DISTRICT	Public	1206699	01S02W35H03	55	N	N	N	N
YVWD	YUCAIPA VALLEY WATER DISTRICT	Public	1206842		57	N	N	N	N
YVWD	YUCAIPA VALLEY WATER DISTRICT	Public	1201439	02S01W15F02	61	Y	Y	Y	Y
YVWD	YUCAIPA VALLEY WATER DISTRICT	Public	1002900	02S01W02L01	62	N	Y	Y	Y
YVWD	YUCAIPA VALLEY WATER DISTRICT	Public	1201426	02S01W02L02	63	N	Y	Y	Y
YVWD	YUCAIPA VALLEY WATER DISTRICT	Public	1201420	02S01W02E	64	N	N	Y	Y
YVWD	YUCAIPA VALLEY WATER DISTRICT	Public	1201421	02S01W02E01	65	N	N	N	N
YVWD	YUCAIPA VALLEY WATER DISTRICT	Public	1201422	02S01W02E02	66	Y	N	N	Y
YVWD	YUCAIPA VALLEY WATER DISTRICT	Public	1201416	02S01W02D	67	Y	N	N	Y
YVWD	YUCAIPA VALLEY WATER DISTRICT	Public	1201417	02S01W02D	68	Y	N	N	Y
YVWD	YUCAIPA VALLEY WATER DISTRICT	Public	1201419	02S01W02D	69	Y	N	N	Y
YVWD	YUCAIPA VALLEY WATER DISTRICT	Public	1201418	02S01W02D	71	Y	N	N	Y
YVWD	YUCAIPA VALLEY WATER DISTRICT	Public	1201428	02S01W03H01	72	Y	N	N	Y
YVWD	YUCAIPA VALLEY WATER DISTRICT	Public	1002903	02S01W03B01	73	Y	Y	N	Y
YVWD	YUCAIPA VALLEY WATER DISTRICT	Public	1201427	02S01W03A01	74	N	N	N	N
YVWD	YUCAIPA VALLEY WATER DISTRICT	Public	1200432	01S01W34G01	75	Y	N	N	Y
YVWD	YUCAIPA VALLEY WATER DISTRICT	Public	1200434	01S01W34Q01	76	N	N	N	N
YVWD	YUCAIPA VALLEY WATER DISTRICT	Public	1201430	02S01W08F02	27A	N	N	N	N
YVWD	YUCAIPA VALLEY WATER DISTRICT	Public	1207007		ADAMST 1/#25	Y	N	N	Y
YVWD	YUCAIPA VALLEY WATER DISTRICT	Public	1200404	01S01W27Q01	BACK CANYON	N	N	N	N
YVWD	YUCAIPA VALLEY WATER DISTRICT	Public	1200406	01S01W27R01	BAUMANN	N	N	N	N
YVWD	YUCAIPA VALLEY WATER DISTRICT	Public	1000689	01S01W26M01	BIRCH CREEK WELL	Y	N	N	Y
YVWD	YUCAIPA VALLEY WATER DISTRICT	Public	1200429	01S01W33E01	CANYON 3	N	N	N	N
YVWD	YUCAIPA VALLEY WATER DISTRICT	Public	1000802	01S02W35H01	Chapman #2	N	N	N	N
YVWD	YUCAIPA VALLEY WATER DISTRICT	Public	1000805	01S02W36C01	Chapman #4	N	N	N	N
YVWD	YUCAIPA VALLEY WATER DISTRICT	Public	1201491	02S02W02L	COBB	N	N	N	N
YVWD	YUCAIPA VALLEY WATER DISTRICT	Public	1201492	02S02W02M	DOBBAN	N	N	N	N
YVWD	YUCAIPA VALLEY WATER DISTRICT	Public	1000812	01S02W36H01	Donovan	N	Y	N	Y
YVWD	YUCAIPA VALLEY WATER DISTRICT	Public	1200428	01S01W33D01	LOWER 2	N	N	N	N
YVWD	YUCAIPA VALLEY WATER DISTRICT	Public	1000791	01S02W31A01	Pendleton	N	Y	N	Y
YVWD	YUCAIPA VALLEY WATER DISTRICT	Public	1200390	01S01W27J01	POTATO TUNNEL	N	N	N	N
YVWD	YUCAIPA VALLEY WATER DISTRICT	Public	1201434	02S01W08D01	WILD MESA	N	N	N	N
YVWD	YUCAIPA VALLEY WATER DISTRICT	Public	1201431	02S01W08A01	WILD TUNNEL	N	N	N	N
YVWD	YUCAIPA VALLEY WATER DISTRICT	Public	1200403	01S01W27Q	WORTHINGTON	N	N	N	N
YVWD	YUCAIPA VALLEY WATER DISTRICT	Public	1000771	01S02W25M01		N	N	N	N
YVWD	YUCAIPA VALLEY WATER DISTRICT	Public	1200510	01S02W25F		N	N	N	N
YVWD	YUCAIPA VALLEY WATER DISTRICT	Public	1200512	01S02W25H		N	N	N	N
Outside of Area	YUCAIPA VALLEY WATER DISTRICT	Public	1200352	01S01W25	OAK GLEN CR	Y	Y	N	Y

Table 2
Planning Level Cost for Title 22 Required Sampling

Analyte Suite	Cost per Sample
Bacteriological	$25
Inorganic Chemicals	$180
General Minerals	$140
General Physical	$30
Organic Chemicals	$1,410
Gross Alpha	$50
Uranium	$75
Asbestos	$200
Dioxin	$600
Total	**$2,710**

Table 3
Surface Water Monitoring Stations Required in the 2003/04 Basin Plan Amendment that Supports the Maximum Benefit Demonstration

Site Name	Discharge	Monitoring Entity	Owner	Type	Discharge Monitoring		Water Quality Monitoring			
					Frequency	Period	Frequency	Period	Analyses RWQCB	Analyses DHS[1]
11057500 Gage	San Timoteo Creek	YVWD	USGS	Total Discharge	Bi-weekly	Jan - Dec	Bi-weekly	Jan - Dec	TDS, TIN, & General Physical	TOC, TDS, Nitrate, Nitrite, TN
At Barton Road	San Timoteo Creek	YVWD		Total Discharge	Bi-weekly	Jan - Dec	Bi-weekly	Jan - Dec	TDS, TIN, & General Physical	TOC, TDS, Nitrate, Nitrite, TN
At San Timoteo Canyon Road	San Timoteo Creek	YVWD		Total Discharge	Bi-weekly	Jan - Dec	Bi-weekly	Jan - Dec	TDS, TIN, & General Physical	TOC, TDS, Nitrate, Nitrite, TN
Above Confluence with Yucaipa Creek	San Timoteo Creek	YVWD		Total Discharge	Bi-weekly	Jan - Dec	Bi-weekly	Jan - Dec	TDS, TIN, & General Physical	TOC, TDS, Nitrate, Nitrite, TN
Above YVWD Recycled Water Discharge	San Timoteo Creek	YVWD		Total Discharge	Bi-weekly	Jan - Dec	Bi-weekly	Jan - Dec	TDS, TIN, & General Physical	TOC, TDS, Nitrate, Nitrite, TN
11059300 Gage	Santa Ana River	YVWD	USGS	Total Discharge	Bi-weekly	Jan - Dec	Bi-weekly	Jan - Dec	TDS, TIN, & General Physical	TOC, TDS, Nitrate, Nitrite, TN
At Waterman Avenue	Santa Ana River	YVWD		Total Discharge	Bi-weekly	Jan - Dec	Bi-weekly	Jan - Dec	TDS, TIN, & General Physical	TOC, TDS, Nitrate, Nitrite, TN
Recharge to Yucaipa Man Zone	State Water Project Water	YVWD		Total Discharge	Monthly	Jan - Dec	Monthly	Jan - Dec	TDS, Nitrate-N	TOC, TDS, Nitrate, Nitrite, TN
Recharge to Yucaipa Man Zone	Storm Water	YVWD		Total Discharge	Monthly	Jan - Dec	Monthly	Jan - Dec	TDS, Nitrate-N	TOC, TDS, Nitrate, Nitrite, TN

Note 1 -- Other constituents will be required when recharge project is identified and permit process is initiated